

KJEM 306, NMR Spectroscopy II, Spring 2018

Main text and curriculum:

James Keeler: “*Understanding NMR Spectroscopy*”, Second Edition, Wiley, 2010.

Chapter 2: Revisiting basic principles. 16 pages.

Chapter 3: Revisiting basic principles. 18 pages.

Chapter 4: Revisiting basic principles. 25 pages.

Chapter 5: 5.1–5.3 useful for later chapters. 14 pages. (5.4–5.6 optional reading. 11 pages.)

Chapter 7: 40 pages.

Chapter 8: 40 pages. (8.5 and 8.12 optional reading. 15 pages.)

Chapter 9: Selected topics.

Chapter 10: [A few selected topics.]

Chapter 11: 45 pages. (11.15–11.16 optional reading. 8 pages.)

Chapter 12: Selected topics.

Chapter 13: Revisiting basic principles. 11 pages.

Total: 139 pages not including chapters 2, 3, 4, 9, [10], 12, and 13.

Supportive/alternative text:

P. J. Hore, J. A. Jones and S. Wimperis: “*Oxford Chemistry Primers. NMR: The Toolkit. How Pulse Sequences Work*”, Second Edition, Oxford University Press, 2015.

Or:

P. J. Hore, J. A. Jones and S. Wimperis: “*Oxford Chemistry Primers Series. No. 92 NMR: The Toolkit*”, Oxford Science Publications, 2000.

Alternative text (previous main text and curriculum):

T. C. Pochapsky and S. S. Popchapsky: “*NMR for Physical and Biological Scientists*”, Garland Science, 2007.

Chapter 1: For revisiting basic principles. 20 pages.

Chapter 2: For revisiting basic principles. 24 pages.

Chapter 3: Some sections needed for later chapters. 40 pages.

Chapter 5: 22 pages.

Chapter 6: 17 pages.

Chapter 7: pp 167–186, 190–197. 28 pages.

Chapter 8: 23 pages.

28 November, 2017
Nils Åge Frøystein